

Title (en)  
FASTENING DEVICE

Title (de)  
BEFESTIGUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE FIXATION

Publication  
**EP 3875414 A4 20221116 (EN)**

Application  
**EP 19877823 A 20190708**

Priority  
• CN 201811275410 A 20181030  
• CN 2019095128 W 20190708

Abstract (en)  
[origin: EP3875414A1] Provided is a fastening device (100), including a housing unit (200), a knob (500), a detent unit (400) and a wire coil (300), wherein the knob drives the detent unit to switch between a first position and a second position in an axial direction; when the detent unit is located at the first position, the detent unit prevents the wire coil from rotating in a first direction; and when the detent unit is located at the second position, an engagement portion (460) is engaged with at least one meshing tooth (230), and the detent unit does not prevent the wire coil from rotating in the first direction. The reliability of the structure to which the fastening device is applied can thus be enhanced.

IPC 8 full level  
**A43C 11/16** (2006.01)

CPC (source: CN EP KR US)  
**A43C 9/00** (2013.01 - CN); **A43C 11/00** (2013.01 - CN); **A43C 11/165** (2013.01 - EP KR US); **B65H 75/4492** (2013.01 - KR); **B65H 75/48** (2013.01 - CN KR); **B65H 2701/35** (2013.01 - CN KR US); **B65H 2701/36** (2013.01 - KR); **B65H 2701/39** (2013.01 - KR)

Citation (search report)  
• [XA] WO 2018086068 A1 20180517 - CHEN CHIN CHU [CN]  
• [A] KR 101833680 B1 20180228 - KIM JUNG GON [KR]  
• See also references of WO 2020087975A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3875414 A1 20210908; EP 3875414 A4 20221116**; CN 111115388 A 20200508; CN 111115388 B 20211119; JP 2021531218 A 20211118; JP 2022190050 A 20221222; JP 7212057 B2 20230124; KR 102576704 B1 20230907; KR 20210041606 A 20210415; US 11825911 B2 20231128; US 2021284483 A1 20210916; WO 2020087975 A1 20200507

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**EP 19877823 A 20190708**; CN 201811275410 A 20181030; CN 2019095128 W 20190708; JP 2020551358 A 20190708; JP 2022175956 A 20221102; KR 20217007221 A 20190708; US 201917261167 A 20190708